

AMENDMENTS TO THE DRAWINGS

The attached sheets of drawings replace the original sheets of drawings of Figs. 1-6, as requested by the Examiner. All drawings are believed to comply with 37 C.F.R. 1.84.

In addition, Fig. 5 has been amended to add the contents of the rectangular box connected to the arrow labeled "SERVICE ACCESS CODE NOT DIALED". The added subject matter is present in priority document PT 102846 and is also included in an "AMENDED SHEET" of the International Application submitted at the time of filing of the present application.

Finally, Fig. 2 has been amended to add the label "PRIOR ART", as requested by the Examiner.

REMARKS

STATUS OF CLAIMS

In response to the Office Action dated October 8, 2008, claims 1-25 have been canceled, and claims 26-47 have been added. Claims 26-47 are now pending in this application.

DRAWING CORRECTION

The Examiner has objected to the drawings because of poor quality and has requested replacement drawings. In addition, the Examiner has requested that Fig. 2 be labeled Prior Art.

By this response, replacement sheets of drawings have been submitted for Figs. 1-6 and are believed to comply with 37 C.F.R. 1.84.

In addition, Fig. 5 has been amended to add the contents of the rectangular box connected to the arrow labeled "SERVICE ACCESS CODE NOT DIALED". The added subject matter is present in priority document PT 102846 and is also included in an "AMENDED SHEET" of the International Application submitted at the time of filing of the present application.

Finally, Fig. 2 has been amended to add the label "PRIOR ART", as requested by the Examiner.

CLAIM OBJECTIONS

Claim 8 has been objected to as being of improper dependent form for failing to further limit the subject matter of a previous claim.

Claims 5, 6, 16 and 22 have been objected to as being in improper multiple dependent form, as they do not refer to other claims in the alternative.

The objections are moot as to cancelled claims 5, 6, 8, 16 and 22.

REJECTION OF CLAIMS UNDER 35 U.S.C. § 101

Claims 20-25 have been rejected under 35 U.S.C. § 101 as being directed to non-statutory subject matter because they are directed to software, which the Examiner has maintained is considered as a program and per se, non-statutory.

The rejection is moot as to cancelled claims 20-25.

REJECTION OF CLAIMS UNDER 35 U.S.C. § 112, FIRST PARAGRAPH

Claim 1 has been rejected under 35 U.S.C. §112, first paragraph, as failing to comply with the enablement requirement. The Examiner has asserted that the claims contain subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is mostly connected, to make and/or use the invention.

The rejection is moot as to cancelled claim 1.

With regard to the Examiner's comment regarding "the specification only discloses the goals and benefits of using a PABX system", Applicant disagrees.

An important feature of the invention disclosed in the present application is shown and described with respect to Figs. 1 and 3. In particular, the use of the transmitter/receiver (see page 9, lines 5-9 of the present application) and the aerial (antenna) to enable a mobile phone to work as an extension of the PARX is an important aspect of the present invention.

REJECTION OF CLAIMS UNDER 35 U.S.C. § 112, SECOND PARAGRAPH

Claims 1-25 have been rejected under 35 U.S.C. § 112, second paragraph, as being indefinite.

The rejection is moot as to cancelled claims 1-25.

REJECTION OF CLAIMS UNDER 35 U.S.C. § 102 AND § 103

I. Claim 1 has been rejected under 35 U.S.C. § 102(a) as being anticipated by the admitted prior art.

Claims 1-24 have been rejected under 35 U.S.C. § 102(b) as being anticipated by Forte (US2002/0019246).

Claim 3 has been rejected under 35 U.S.C. § 103(a) as being unpatentable over Forte in view of Freeny Jr. (US 2003/0153352), relied upon by the Examiner as disclosing a communication transmission line between a mobile phone and a PABX is a satellite communication.

II. To expedite prosecution, claims 1-25 have been cancelled and new claims 26-47 have been submitted with claims 26, 41 and 47 being independent claims.

New independent claim 26 recites:

A communication system comprising:
a PABX for an internal network and configured to connect to external networks; and
a plurality of extensions for connecting to the internal network and to the external network via the PABX, wherein
the plurality of extensions include at least one mobile phone that is configured to be connected to an external mobile phone network using a wireless carrier,

the PABX includes

- a CPU having a memory,
- a power supply and power supply circuits,
- software that enables the CPU to perform the functions of
(i) answering, making and transferring phone calls and (ii)
detecting, identifying and integrating mobile phones into the
communication system as extensions for connecting to the internal
network,
- fixed and mobile network circuits,
- detection and reversible circuits for switching from an
extension to a trunk line or a network and for switching from the
trunk line or the network to the extension, and
- a mobile phone transmitting/receiving unit and antenna for
directly communicating with any mobile phone that is integrated
into the communication system as an extension for connecting to
the internal network, and

the at least one mobile phone integrated into the communication system as an extension connects to the internal network via the mobile phone transmitting/receiving unit and antenna of the PABX, to the external network via the mobile phone transmitting/receiving unit and antenna of the PABX, and to the external mobile phone network via direct communication using the wireless carrier without using the mobile phone transmitting/receiving unit and antenna of the PABX.

New independent claim 41 recites:

A communication method for integrating at least a mobile phone in a PABX by establishing a connection and communication between the mobile phone and the PABX via carrying out the following steps:

- when the PABX starts the connection, the PABX sends to the mobile phone a connection indication signal through a transmission line, the mobile phone accepts the communication, circuits identify the mobile phone as a mobile phone extension and switch the circuits, and a CPU of the PABX immediately integrates the mobile phone extension in the PABX;

- when the mobile phone or the mobile phone extension starts the connection, the mobile phone or the mobile phone extension sends to the PABX a connection indication signal through the transmission line, the PABX accepts the communication, the circuits identifying the mobile phone as a mobile extension and switch the circuits, and the CPU of the PABX immediately integrates the mobile phone extension in the PABX as an internal extension of the PABX; and

- allowing system function of development, processing and progress including answering, making and transferring phone calls, and detecting,

identifying and integrating mobile phones in the PABX, as well as accessing all services of as an internal extension of the PABX.

New independent claim 47 recites:

A communication system comprising:
a PABX for an internal network and configured to connect to external networks;
a plurality of extensions for connecting to the internal network and to the external network via the PABX; and
a mobile phone transmitting/receiving unit and antenna connected to the PABX, wherein
the plurality of extensions include at least one mobile phone that is configured to be connected to an external mobile phone network using a wireless carrier,
the PABX includes
a CPU having a memory,
a power supply and power supply circuits,
software that enables the CPU to perform the functions of
(i) answering, making and transferring phone calls and (ii)
detecting, identifying and integrating mobile phones into the communication system as extensions for connecting to the internal network of the PABX,
fixed and mobile network circuits, and
detection and reversible circuits for switching from an extension to a trunk line or a network and for switching from the trunk line or the network to the extension,
the mobile phone transmitting/receiving unit and antenna is for directly communicating with any mobile phone that is integrated into the communication system as an extension, and
the at least one mobile phone integrated into the communication system as an extension connects to the internal network via the mobile phone transmitting/receiving unit and antenna connected to the PABX, to the external network via the mobile phone transmitting/receiving unit and antenna connected to the PABX, and to the external mobile phone network via direct communication using the wireless carrier without using the mobile phone transmitting/receiving unit and antenna connected to the PABX.

In Forte, cellular phones 82-88 communicate with PBX 14 via a PSTN (Public Switched Telephone Network). In particular, when using any of mobile phones 82-88 to make a station to

station call, the mobile phone connects to the internal network of PBX 14 via antenna 60, wireless switch 58, PSTN 54, CSU 34, and wireless connect 30 (see paragraph [0030]).

While Wireless Connect 30 is connected to PBX 14, mobile phones 82-88 do not connect directly with Wireless Connect 30. Therefore, Forte does not disclose or suggest that a mobile phone transmitting/receiving unit and antenna is included in or connected to PBX 14 for directly communicating with any mobile phone 82-88 that is used in the telecommunication system 10 as an extension without having to go through a PSTN.

In particular, in Forte, the system includes a Wireless Connect 30 in communication with a PBX 14 network. The mobile extension (70) does not enter at the Wireless Connect 30 through a mobile network, as is the case in the present application, but only through a PSTN. This does not resolve the enterprise necessities, revealed in the last decade, concerning the enormous costs surrounding mobile to fixed connections. Figure 1 of Forte illustrates that the Wireless Connect 30 communicates with the exterior through a PRI access connected to the PSTN. Therefore, the arrangement of Forte is restricted by every signaling limitation that is known to be in the PRI, especially concerning PBX services access. In the present invention, the mobile phone connects directly to the PABX, increasing to a maximum the features that are allowable to the mobile phone.

The system disclosed in the present application was designed and built to communicate with wireless public networks (GSM, UMTS and others) by using the PBX reversible circuits which, during the communication, switch from trunk functioning to extension functioning. More relevant than the network PBX access is the real access to the PBX, which includes all access of PBX extensions, trunks, lines, accesses and services in accordance with a user's restrictions and

rights. This is possible thanks to the reversible package included in the present invention, which switch the circuits from trunk to extension so that the mobile extension is connected as a PABX extension.

The connections of the present invention are optimized in every physical and logical resource.

Freeny Jr. does not remedy the above-noted deficiency of Forte. Therefore, new independent claims 26, 41 and 47 are patentable over Forte and Freeny, Jr. , considered alone or in combination.

New claims 27-40 and 46 delineate additional features and depend directly or indirectly from new independent claim 26. New claims 42-46 delineate additional features and depend directly or indirectly from new independent claim 41. Therefore, claims 27-40 and 42-46 are patentable over Forte and Freeny, Jr., at least for the reason that independent claims 26 and 41 are patentable over these references.

III. In view of the above, the allowance of claims 26-47 is respectfully solicited.

CONCLUSION

In view of the above, applicant(s) believes the pending application is in condition for allowance.

Should there be any outstanding matters that need to be resolved in the present application, the Examiner is respectfully requested to contact Edward J. Wise (Reg. No. 34,523) at the

telephone number of the undersigned below, to conduct an interview in an effort to expedite prosecution in connection with the present application.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37.C.F.R. §§1.16 or 1.14; particularly, extension of time fees.

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Respectfully submitted,

By 

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Attachments: Drawings, Figs. 1-6